



SIEMENS MOBILITY

Trainguard EOT

New generation end-of-train device for connected onboard telemetry

Easy to Use and Maintain

Small, lightweight, well-balanced, and packed with the latest technological advances, Trainguard EOT HP (High Power Generator) is the easiest and most powerful end-of-train device to use, service and maintain that is on the market today.

The reinforced high-strength clear dome gives ample view of all displays (front and rear pressure displays and front alphanumeric message display), LED indicators and high-visibility marker light.

The clear dome also doubles as a service port. It can be easily removed to give direct access to the subsystems most frequently involved in routine maintenance tasks, including antennas and RF connectors, cellular SIM card, micro SD-card, and USB connector. Also, radio alignment can be performed with no disassembly at all. This translates into increased efficiency and faster turnarounds at the user repair facility.

Situated at the very top, underneath the dome, the GNSS and LTE cellular antennas provide the best possible signal coverage, insuring reliable remote tracking under most conditions.

Trainguard EOT is designed for very low power consumption. The EOT will report its position to the remote tracking service for up to a year while sleeping, greatly increasing the likelihood that a lost EOT in the field will be found before the battery runs out and it stops sending its current location.

High-Performance Pneumatics

The newly redesigned manifold is smaller and lighter, with shorter air paths that help reduce the risk of clogging and icing. A single valve with large-diameter orifice provides high exhaust flow-rate, improving emergency braking performance.

Electrical connections are made with high-reliability sealed connectors that insure long-life operation in all field conditions. All pneumatic hook-ups are within easy reach, located at the bottom of the EOT, including an independent secondary port for monitoring main-reservoir pressure in dual-pipe applications.

The new high-efficiency air-powered generator design provides 30 Watts of power to quickly charge the internal battery and keep it charged throughout the trip.

SIEMENS

And the main pressure sensor is located right at the air inlet for the most accurate reporting of brake-pipe conditions.

Lithium Iron Phosphate Battery

The lightweight, high-capacity LFP battery is housed in a secure, sealed compartment molded into the enclosure, supported by foam-rubber on all sides.

Unlike lead-acid batteries, the LFP battery can be fully discharged and recharged thousands of times without damage. They are virtually indestructible and more environmentally friendly than lead-acid or other Lithium formulations.

Self-Test and Diagnostics

Trainguard EOT performs continuous diagnostic self-checks to insure all subsystems are operating correctly and to detect and notify the user in case of internal malfunction. Faults are reported on the message display and logged in the event log when set and when cleared. Various faults are reported to the remote tracking service, with more coming in the future.

Monitored subsystems include valves, sensors, air generator, power supplies, charging system, mass storage, pushbutton, LTE modem, GNSS, marker light, and others. In addition to capturing and indicating faults as they occur, the event log shows a large number of signals that can be used to track and understand the behavior of the EOT under varying circumstances.

No Need for Custom Software Tools

Trainguard EOT can be accessed, controlled, configured, programmed and tested using universal standard off-the-shelf applications and tools. There is no need for custom programs to download logs, upgrade firmware or verify functionality.

Use a generic terminal emulation program (e.g. Tera Term®—a free open-source utility) to connect serially with the EOT and perform all tasks using a simple and intuitive menu-driven interface.

Log files are created in standard CSV format and can be directly opened in Microsoft® Excel, where data analysis can be performed in a variety of ways.

Connect a cable from the USB port to the computer and see all contents of the EOT's mass storage as a remote disk attached to the computer, making it easy to retrieve log files and load firmware upgrades.

Wireless Access

For the ultimate convenience, just use a web browser to connect to the EOT's web server over Wi-Fi (no cables needed). Wirelessly monitor internal EOT parameters, activity, and health status. Easily retrieve event logs and load new firmware, all without having to touch the EOT.

Rugged and Reliable

Designed for the extreme rigors of the end-of-train application, Trainguard EOT takes ruggedness and reliability to a new level. The sealed enclosure is made up of three (3) reinforced, tightly fitted pieces, each fabricated from extremely strong and durable materials. The blended resin used for the main clam-shell has been field-proven over decades of use. And the new clear top-dome is fabricated from high-strength UV-stable Polycarbonate.

The compact, lightweight design of the Trainguard EOT helps reduce the high torques and forces it is subjected to in normal use. And with the location of the coupler mounting point very close to the unit's center of gravity, shock and vibration severity is greatly reduced. Supplementing this geometry and weight distribution advantage, all internal electronic subsystems reside on a single tray that is attached to the enclosure by shock absorbers, further attenuating the impact of mechanical vibration and shock.

The Trainguard EOT is RailFusion enabled to allow for management of your EOT fleet, including asset location tracking, visibility into device status, and more—all accessible remotely from wherever you are.

Specifications

Item	Description
Internal Power	LiFePO4 (LFP) battery 12.8 V nominal 4500 mA-h capacity Battery recharge via 35W air-powered generator >36-hour operation on generator failure Advanced charge management with gas-gauge function
External Power	Standard power supply (10-25 volts) Industry standard 6-pin charge port
Enclosure	UV-stabilized PC/PBT blended resin Red and orange color options UV-stabilized PC clear dome for visual access Clam-shell sealed construction
Manifold	0-125 PSI operating pressure Measurement accuracy +/- 3 PSI Standard single-hose and dual-hose options
Mounting Clamp	Industry-standard clamp fits type E/F couplers Mounting point near EOT center of gravity
Displays	Front and rear 3-digit pressure displays Front 8-character alphanumeric display
Radio	8W narrowband UHF transceiver Internal and external (long-range) antenna options
Interfaces	RS232 USB Wi-Fi Bluetooth LE 4G-LTE IoT cellular modem GPS (separate from modem) High-reliability sealed electro-pneumatic connectors
Log Memory	Micro-SD card (8 GB standard)
Remote Connectivity	Remote GPS position tracking Programmable call frequency Remote (and local) disable/re-enable Continuous reporting (enabled and disabled) Remote over-the-air software update
Ambient Conditions	Operating temperature: -40 °C to +70 °C Operating humidity: 0-95% non-condensing Storage temperature: -55 °C to +85 °C
Dimensions	Height: 18.5" Width: 6.3" Depth: 5.5" (8.1" from handle to clamp hook)
Weight	14.3 lb (without hose) 18.3 lb (with steel glad-hand hose)



Ordering

To order, call 1(800) 793-7233

Siemens Mobility, Inc.
One Penn Plaza
11th Floor, Suite 1100
New York, NY 10119
United States

Contact for information:
Rolling Stock Rail Plant, Sacramento, CA 95828
siemensmobility.us@siemens.com

Printed in USA | © 2026, Siemens Mobility | usa.siemens.com/mobility

Subject to changes and errors. Reference to any specific commercial products, processes, or services, or the use of any trade, firm, or corporation name is for the information and convenience of the public and does not constitute endorsement, recommendation, or favoring by their respective entities. The information given in this document only contains general descriptions and/or performance features. The requested performance features are binding only when they are expressly agreed upon in the concluded contract.

SIEMENS